



# Downlink Fiber Laser Transmitter for Deep Space Communication, Phase II

Completed Technology Project (2013 - 2015)



Organizations Performing Work	Role	Type	Location
Fibertek, Inc.	Lead Organization	Industry	Herndon, Virginia
● Jet Propulsion Laboratory(JPL)	Supporting Organization	NASA Center	Pasadena, California

## Primary U.S. Work Locations

California	Virginia
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## Project Transitions

**January 2013:** Project Start

**April 2015:** Closed out

### Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/137313>)

## Images



## Project Image

Downlink Fiber Laser Transmitter for Deep Space Communication Project Image (<https://techport.nasa.gov/image/127378>)

## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Organization:

Fibertek, Inc.

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

### Program Director:

Jason L Kessler

### Program Manager:

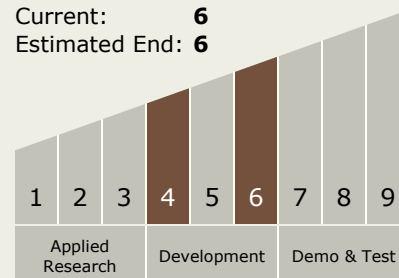
Carlos Torrez

### Principal Investigator:

Doruk Engin

## Technology Maturity (TRL)

Start: **4**  
Current: **6**  
Estimated End: **6**



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## Technology Areas

### Primary:

- TX05 Communications, Navigation, and Orbital Debris Tracking and Characterization Systems
  - └ TX05.1 Optical Communications
    - └ TX05.1.3 Lasers

## Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System